Nuclear Instruments and Methods in Physics Research B 95 (1995) 551–557

ELSEVIER

NIM B
Beam Interactions with Materials & Atoms

Author index

Abril, I., see Caturla, M.J. 95 (1995) 91
Alexiev, D., see Butcher, K.S.A. 95 (1995) 355
Alimov, R., see Gulamova, R.R. 95 (1995) 70
Alvarez, I., see Fuentes, B.E. 95 (1995) 158
Andreo, P., see Tabata, T. 95 (1995) 289
Arikan, P., A. Zararsiz, R. Kirmaz and N. Efe, Determination of high-Z materials in low-Z medium by X-ray scattering techniques 95 (1995) 82
Artinian, A.M., see Uzunov, N.M. 95 (1995) 276
Avignone III, F.T., see Collar, J.I. 95 (1995) 349

Baranov, V.I., V.M. Biryukov, A.P. Bugorsky, Yu.A. Chesnokov, V.I. Kotov, M.V. Tarakanov, V.I. Terekhov, S.V. Tsarik, O.L. Fedin, M.A. Gordeeva, M.P. Gur'yev, Yu.P. Platonov and A.I. Smirnov, Highly efficient deflection of a divergent beam by a bent single crystal (*Letter to the Editor*) 95 (1995) 449
Barbot, J.F., E. Ntsoenzok, C. Blanchard, J. Vernois and D.B. Isabelle, Defect levels of proton-irradiated silicon with doses ranging from 1×10^{12} cm^{-2} to 1×10^{13} cm^{-2} 95 (1995) 213
Barker, P.H., see Giuntini, L. 95 (1995) 389
Bartiromo, R., F. Bombarda, L. Gabellieri, G. Pizzicaroli, A.A. Tuccillo and R. Zagarella, High counting rate soft X-ray spectrometer for tokamak plasma diagnostics 95 (1995) 537
Baumann, H., see Noli, F. 95 (1995) 197
Beaumevieille, H., see Ouichaoui, S. 95 (1995) 463
Belko, V.I., see Mozolevsky, I.E. 95 (1995) 17
Belykh, S.F., R.N. Evtukhov, I.V. Redina and V.Kh. Ferleger, Ion-photon emission from metals implanted with ions of reactive elements 95 (1995) 300
Benabdellah, M.Z., see Benyaich, F. 95 (1995) 102
Benyaich, F., L. Torrisi, M.Z. Benabdellah and M. Derraz, PIXE and RBS analysis of sediments from El-Kansera barrage on Oued Beht river in Morocco 95 (1995) 102
Bertschy, M., see Jolie, J. 95 (1995) 431
Bertschy, M., J. Jolie and W. Mondelaers, A tunable monochromatic gamma-ray source. Part 2. Realisation of the RCFT geometry at the Ghent 15 MeV linac 95 (1995) 437
Bhave, P.S., S.T. Chavan and V.N. Bhoraskar, Improvement in switching characteristics of silicon diodes through a selective zone of defects produced by 6 MeV electrons 95 (1995) 334
Bhoraskar, V.N., see Bhave, P.S. 95 (1995) 334
Bimbot, R., see Ouichaoui, S. 95 (1995) 463
Birrer, P., see Miyake, Y. 95 (1995) 265
Biryukov, V.M., see Baranov, V.I. 95 (1995) 449
Blanchard, C., see Barbot, J.F. 95 (1995) 213
Boldeman, J.W., see Butcher, K.S.A. 95 (1995) 355
Bombarda, F., see Bartiromo, R. 95 (1995) 537
Bosetti, M., N. Croitoru, C. Furetta, C. Leroy, S. Pensotti, P. Rancoita, M. Rattaggi, M. Redaelli and A. Seidman, Study of current–voltage characteristics of irradiated silicon detectors 95 (1995) 219
Böttger, Ch., see Stieler, W. 95 (1995) 235
Bugorsky, A.P., see Baranov, V.I. 95 (1995) 449
Busjan, W., see Wulkop, B. 95 (1995) 141
Butcher, K.S.A., D. Alexiev and J.W. Boldeman, A neutron damage study of liquid phase epitaxial GaAs and high purity silicon 95 (1995) 355

Calcagno, L., R. Percolla and G. Foti, Ion track effects on gel formation of polystyrene 95 (1995) 59
Campbell, J.L., see Maxwell, J.A. 95 (1995) 407
Capuj, N.E., see Jakas, M.M. 95 (1995) 146
Carter, T., see Porras, E. 95 (1995) 344

0168-583X/95/$09.50 © Elsevier Science B.V. All rights reserved

Caturla, M.J., I. Abril and J.J. Jiménez-Rodríguez, Depth resolution in depth profiling of marker layers by energetic ion bombardment 95 (1995) 91
Chartier, P., J.P. Riviere, J. Mimault and T. Girardeau, A TEM and EXAFS study of TiB_2 coatings produced by dynamic ion mixing 95 (1995) 327
Chavan, S.T., see Bhave, P.S. 95 (1995) 334
Chen, H., V.A. Sharov, D.F.R. Mildner, R.G. Downing, R.L. Paul, R.M. Lindstrom, C.J. Zeissler and Q.F. Xiao, Prompt gamma activation analysis enhanced by a neutron focusing capillary lens 95 (1995) 107
Chen, X., see Yan, P. 95 (1995) 55
Chernov, V., see Rogalev, B. 95 (1995) 505
Chesnokov, Yu.A., see Baranov, V.I. 95 (1995) 449
Chini, T.K., J. Kato, M. Tanemura and F. Okuyama, Monocrystalline InP surfaces normally sputtered with Ar^+: SEM and TEM observations 95 (1995) 313
Chu, T.K., see Stumborg, M.F. 95 (1995) 319
Cieślak, J. and S.M. Dubiel, Harmonic analysis of Mössbauer spectra 95 (1995) 131
Cisneros, C., see Fuentes, B.E. 95 (1995) 158
Claeys, C., see Simoen, E. 95 (1995) 75
Collar, J.I. and F.T. Avignone III, Nuclear tracks from Cold Dark Matter interactions in mineral crystals: a computational study 95 (1995) 349
Collico Savio, D.L., M.A.J. Mariscotti and S. Ribeiro Guevara, Elemental analysis of a concrete sample by capture gamma rays with a radioisotope neutron source 95 (1995) 379
Crawford, O.H., see Dorado, J.J. 95 (1995) 144
Croitoru, N., see Bosetti, M. 95 (1995) 219

De Urquijo, J., see Fuentes, B.E. 95 (1995) 158
Dannemann, A., see Wulkop, B. 95 (1995) 141
Daous, M.A., see Khawaja, E.E. 95 (1995) 153
Dapor, M., Elastic scattering of electrons and positrons by atoms: differential and transport cross section calculations . 95 (1995) 470
D'Arrigo, A., see Yuminov, O.A. 95 (1995) 543
Dean, A.J., see Porras, E. 95 (1995) 344
Derraz, M., see Benyaich, F. 95 (1995) 102
Donner, J., see Kuisma-Kursula, P. 95 (1995) 523
Dorado, J.J., O.H. Crawford and F. Flores, Erratum to: "The non-linear wake in a hydrodynamical model" [Nucl. Instr. and Meth. B 93 (1994) 175] 95 (1995) 144
Dose, V., see Eckstein, W. 95 (1995) 14
Downing, R.G., see Chen, H. 95 (1995) 107
Drandarov, N., see Georgieva, S. 95 (1995) 115
Dubiel, S.M., see Cieślak, J. 95 (1995) 131
Durrani, S.M.A., see Khawaja, E.E. 95 (1995) 153

Eckstein, W., W. von der Linden and V. Dose, Efficient tabulation of plasma surface interaction data 95 (1995) 14
Efe, N., see Arikan, P. 95 (1995) 82
Egorova, I.M., see Yuminov, O.A. 95 (1995) 543
Eichler, J., see Magalhães, S.D. 95 (1995) 87
Eldrup, M., see Poulsen, J.R. 95 (1995) 260
Elfman, M., N.P.-O. Homman and P. Kristiansson, Development of an anti-Compton shield for a Si(Li) detector employed in PIXE analysis 95 (1995) 122
Eremenko, D.O., see Yuminov, O.A. 95 (1995) 543
Eremin, N.V., see Yuminov, O.A. 95 (1995) 543
Evdokimov, V.A., M. Mashlan, D. Zak, A.A. Fyodorov, A.L. Kholmetskii and O.V. Misevich, Mini and micro transducers for Mössbauer spectroscopy (*Letter to the Editor*) 95 (1995) 278
Evtukhov, R.N., see Belykh, S.F. 95 (1995) 300

Fan, Y.D., see Feng, J.Y. 95 (1995) 50
Fedin, O.L., see Baranov, V.I. 95 (1995) 449
Feng, J.Y., F.W. Zhang, Y. Zheng and Y.D. Fan, Formation of Te clusters in ionized cluster beam deposition technique 95 (1995) 50
Ferleger, V.Kh., see Belykh, S.F. 95 (1995) 300
Ferrero, J.L., see Porras, E. 95 (1995) 344
Flores, F., see Dorado, J.J. 95 (1995) 144
Foti, G., see Calcagno, L. 95 (1995) 59

Fotina, O.V., see Yuminov, O.A. 95 (1995) 543
Fuentes, B.E., H. Martínez, C. Cisneros, I. Alvarez and J. de Urquijo, Angular distributions for H^- formation from interaction of H_2^+ with Kr 95 (1995) 158
Furetta, C., see Bosetti, M. 95 (1995) 219
Fyodorov, A.A., see Evdokimov, V.A. 95 (1995) 278

Gabellieri, L., see Bartiromo, R. 95 (1995) 537
Ganau, P., see Vireton, E. 95 (1995) 34
Gasanov, E.M., see Gulamova, R.R. 95 (1995) 70
Gawlik, G., see Kopcewicz, M. 95 (1995) 208
Georgieva, S., N. Drandarov and B. Nikolov, The effects of source temperature and emission current on the mass spectrum and the angular distribution of the ions emitted by an AuSi field ion source 95 (1995) 115
Giardina, G., see Yuminov, O.A. 95 (1995) 543
Giorginis, G., see Noli, F. 95 (1995) 197
Girardeau, T., see Chartier, P. 95 (1995) 327
Giuntini, L., F. Lucarelli, P.A. Mandò, W. Hooper and P.H. Barker, Galileo's writings: chronology by PIXE 95 (1995) 389
Gonçalves, O., see Magalhães, S.D. 95 (1995) 87
Gordeeva, M.A., see Baranov, V.I. 95 (1995) 449
Gowda, C., T.K. Umesh and R. Gowda, A simple method to measure the total coherent scattering cross sections of elements 95 (1995) 127
Gowda, R., see Gowda, C. 95 (1995) 127
Guardala, N.A., see Stumborg, M.F. 95 (1995) 319
Guénard, P., see Renaud, G. 95 (1995) 422
Gulamova, R.R., E.M. Gasanov, E.V. Sazonova and R. Alimov, The employment of quartz glasses for dosimetry of ionizing radiation 95 (1995) 70
Gur'yev, M.P., see Baranov, V.I. 95 (1995) 449

Hallak, A.B., see Khawaja, E.E. 95 (1995) 153
Han Guangwu, see Wei Zengquan 95 (1995) 371
Hatzidimitriou, A., see Noli, F. 95 (1995) 197
He, Y.D. and M. Solarz, Enhancing the sensitivity of CR-39 detectors to relativistic ions by etching in potassium and sodium hydroxides 95 (1995) 225
Hesse, J., see Stieler, W. 95 (1995) 235
Hillberg, M., see Stieler, W. 95 (1995) 235
Hnatowicz, V., see Jankovskij, O. 95 (1995) 192
Holm, U., see Wulkop, B. 95 (1995) 141
Homman, N.P.-O., see Elfman, M. 95 (1995) 122
Hooper, W., see Giuntini, L. 95 (1995) 389
Hou Qing, see Luo Zhengming 95 (1995) 1
Hourany, E., see Ouichaoui, S. 95 (1995) 463
Hughey, B.J., A long-lived tritiated titanium target for fast neutron production 95 (1995) 393
Huston, A.L., see Justus, B.L. 95 (1995) 533

Inoue, M., see Nishigaki, S. 95 (1995) 307
Irkaev, S.M., see Semenov, V.G. 95 (1995) 253
Isabelle, D.B., see Barbot, J.F. 95 (1995) 213
Ishikawa, Y. and N. Shibata, Oxygen redistribution during low-energy oxygen implantation 95 (1995) 491
Ito, R., see Tabata, T. 95 (1995) 289

Jagielski, J., see Kopcewicz, M. 95 (1995) 208
Jakas, M.M. and N.E. Capuj, Erratum to: "Calculation of energetic H_2^+-transmission yield using an efficient Monte Carlo algorithm" [Nucl. Instr. and Meth. B 93 (1994) 14] and "Wake effects on the transmission of fast H_2^+-ions through thin carbon foils" [Nucl. Instr. and Meth. B 93 (1994) 11] 95 (1995) 146
Jankovskij, O., V. Švorčík, V. Rybka, V. Hnatowicz and V. Popok, Diffusion of iodine into polyethylene implanted with 150 keV As^+ ions 95 (1995) 192
Jian Hui, see Liao Changgeng 95 (1995) 97
Jiménez-Rodríguez, J.J., see Caturla, M.J. 95 (1995) 91
Jing, C., see Wang, W.J. 95 (1995) 339
Johnson, T.L., see Justus, B.L. 95 (1995) 533
Jolie, J. and M. Bertschy, A tunable monochromatic gamma-ray source. Part 1. Concept of the source 95 (1995) 431

Jolie, J., see Bertschy, M. 95 (1995) 437
Justus, B.L., T.L. Johnson and A.L. Huston, Radiation dosimetry using thermoluminescence of semiconductor-doped Vycor glass 95 (1995) 533

Kang, H., see Kim, C. 95 (1995) 171
Karpe, N., Using electrical resistivity to analyze the kinetics of irradiation induced amorphization of metals 95 (1995) 485
Kato, J., see Chini, T.K. 95 (1995) 313
Khawaja, E.E., S.M.A. Durrani, A.B. Hallak and M.A. Daous, Measurement of absolute stopping cross sections by backscattering in thin dielectric films 95 (1995) 153
Kholmetskii, A.L., see Evdokimov, V.A. 95 (1995) 278
Kim, C., H. Kang and S.C. Park, Hyperthermal (10–500 eV) collisions of noble gases with Ni(100) surface. Comparison between light and heavy atom collisions 95 (1995) 171
Kirmaz, R., see Arikan, P. 95 (1995) 82
Kopcewicz, M., J. Jagielski and G. Gawlik, The $\epsilon \rightarrow \gamma'$ transformation in N-implanted α-Fe 95 (1995) 208
Kordyukevich, V.O., see Yuminov, O.A. 95 (1995) 543
Kotov, V.I., see Baranov, V.I. 95 (1995) 449
Kristiansson, P., see Elfman, M. 95 (1995) 122
Kuga, T., see Miyake, Y. 95 (1995) 265
Kuisma-Kursula, P., J. Räisänen and J. Donner, PIXE-method determination of the elemental composition of the European oyster Ostrea edulis 95 (1995) 523
Kunitomo, S., see Nishigaki, S. 95 (1995) 307

Lam, N.Q., see Zhu, H. 95 (1995) 25
Laprat, P., see Vireton, E. 95 (1995) 34
Leblanc, L., G.G. Ross and W.E. Wallace, Measured stopping powers of hydrogen and helium in polystyrene near their maximum values 95 (1995) 457
Lei, F., see Porras, E. 95 (1995) 344
Leroy, C., see Bosetti, M. 95 (1995) 219
Lettry, J., see Poulsen, J.R. 95 (1995) 260
Li, B., see Yan, P. 95 (1995) 55
Li, F., see Zhou, R. 95 (1995) 249
Li, H.-D., see Liu, C.H. 95 (1995) 323
Li, W.-Z., see Liu, C.H. 95 (1995) 323
Li Wenjian, see Wei Zengquan 95 (1995) 371
Liao Changgeng, Jian Hui, Wang Yongqiang and Zheng Zhihao, Boron depth profiles in silicon and simulation of α-spectra 95 (1995) 97
Lindstrom, R.M., see Chen, H. 95 (1995) 107
Litterst, F.J., see Stieler, W. 95 (1995) 235
Liu, C.H., W.-Z. Li and H.-D. Li, Structure and hardness enhancement of Fe/TiC multilayered films 95 (1995) 323
Lucarelli, F., see Giuntini, L. 95 (1995) 389
Luo Ping-An, see Wang Da-Chun 95 (1995) 161
Luo Zhengming, and Hou Qing, Can the light ion transport in heavy targets be characterized by a single parameter? . 95 (1995) 1
Lutz, G., A simplistic model for reverse annealing in irradiated silicon 95 (1995) 41

Mackowski, J.M., see Vireton, E. 95 (1995) 34
Magalhães, S.D., J. Eichler and O. Gonçalves, Calculation on X-ray scattering of 17.4 keV radiation and image degradation in mammography 95 (1995) 87
Maisl, M., see Munshi, P. 95 (1995) 402
Malaguti, F., see Yuminov, O.A. 95 (1995) 543
Maltsev, Y.N., see Semenov, V.G. 95 (1995) 253
Mandò, P.A., see Giuntini, L. 95 (1995) 389
Marangos, J.P., see Miyake, Y. 95 (1995) 265
Mariscotti, M.A.J., see Collico Savio, D.L. 95 (1995) 379
Martínez, H., see Fuentes, B.E. 95 (1995) 158
Mashlan, M., see Evdokimov, V.A. 95 (1995) 278
Maxwell, J.A., W.J. Teesdale and J.L. Campbell, The Guelph PIXE software package II 95 (1995) 407
Meng, X.-T., Positron annihilation investigation of defects in hydrogen containing FZ Si irradiated with high-dose reactor neutrons 95 (1995) 65
Michel, C., see Vireton, E. 95 (1995) 34
Mildner, D.F.R., see Chen, H. 95 (1995) 107
Mimault, J., see Chartier, P. 95 (1995) 327

Misaelides, P., see Noli, F. 95 (1995) 197
Misevich, O.V., see Evdokimov, V.A. 95 (1995) 278
Miyake, Y., J.P. Marangos, K. Shimomura, P. Birrer, T. Kuga and K. Nagamine, Laser system for the resonant ionization of hydrogen-like atoms produced by nuclear reactions 95 (1995) 265
Mondelaers, W., see Bertschy, M. 95 (1995) 437
Moroni, A., see Yuminov, O.A. 95 (1995) 543
Mozolevsky, I.E. and V.I. Belko, High-energy ion implantation simulation based on numerical solution of the Boltzmann transport equation 95 (1995) 17
Munshi, P., M. Maisl and H. Reiter, An experimental study of tomographic contrast resolution 95 (1995) 402

Nagamine, K., see Miyake, Y. 95 (1995) 265
Neuefeind, J., see Poulsen, H.F. 95 (1995) 509
Nikolov, B., see Georgieva, S. 95 (1995) 115
Nishigaki, S., S. Onda, S. Kunitomo, M. Inoue and T. Noda, Emission of excited neutral atoms and ions from a Mg surface incorporated with oxygen under Ar ion sputtering 95 (1995) 307
Noda, T., see Nishigaki, S. 95 (1995) 307
Noli, F., P. Misaelides, G. Giorginis, H. Baumann and A. Hatzidimitriou, The effect of Zr-implantation on the thermal oxidation and aqueous corrosion of AISI 321 stainless steel 95 (1995) 197
Ntsoenzok, E., see Barbot, J.F. 95 (1995) 213

Okuyama, F., see Chini, T.K. 95 (1995) 313
Olmos, P., see Porras, E. 95 (1995) 344
Onda, S., see Nishigaki, S. 95 (1995) 307
Ouichaoui, S., L. Rosier, E. Hourany, R. Bimbot, N. Redjdal and H. Beaumevieille, Stopping powers of Al, Cu, Ag and Au media for 1.47 MeV/u ^{127}I, 2 MeV/u ^{32}S and ^{79}Br ions 95 (1995) 463

Park, S.C., see Kim, C. 95 (1995) 171
Paul, R.L., see Chen, H. 95 (1995) 107
Penev, I.P., see Uzunov, N.M. 95 (1995) 276
Persotti, S., see Bosetti, M. 95 (1995) 219
Percolla, R., see Calcagno, L. 95 (1995) 59
Pérez, J.M., see Porras, E. 95 (1995) 344
Pinard, L., see Vireton, E. 95 (1995) 34
Pizzicaroli, G., see Bartiromo, R. 95 (1995) 537
Platonov, S.Yu., see Yuminov, O.A. 95 (1995) 543
Platonov, Yu.P., see Baranov, V.I. 95 (1995) 449
Popok, V., see Jankovskij, O. 95 (1995) 192
Porras, E., T. Carter, J.M. Pérez, J.L. Ferrero, F. Sánchez, J.A. Ruiz, Y. Schutz, F. Lei, A.J. Dean, V. Reglero and P. Olmos, High energy proton-induced radioactivity in HgI_2 crystals 95 (1995) 344
Porter, L.E., Mean excitation energies of Al_2O_3 and SiO_2 extracted from alpha particle stopping power measurements 95 (1995) 285
Poulsen, H.F. and J. Neuefeind, Multiple scattering in synchrotron studies of disordered materials 95 (1995) 509
Poulsen, J.R., M. Eldrup, J. Lettry and the ISOLDE collaboration, Sources for positron lifetime spectroscopy produced by ion implantation of ^{22}Na 95 (1995) 260
Price, J.L., see Stumborg, M.F. 95 (1995) 319
Protopopov, Yu.M. and V.G. Vasil'chenko, Radiation damage in plastic scintillators and optical fibers 95 (1995) 496
Purghel, L. and N. Vâlcov, Particle and energy dependence of the statistical fluctuations of an ionization chamber current 95 (1995) 7

Räisänen, J., see Kuisma-Kursula, P. 95 (1995) 523
Rancoita, P., see Bosetti, M. 95 (1995) 219
Rattaggi, M., see Bosetti, M. 95 (1995) 219
Redaelli, M., see Bosetti, M. 95 (1995) 219
Redina, I.V., see Belykh, S.F. 95 (1995) 300
Redjdal, N., see Ouichaoui, S. 95 (1995) 463
Reglero, V., see Porras, E. 95 (1995) 344
Reimann, C.T., Some comments on pressure-pulse/shock-wave desorption in a real material 95 (1995) 181
Reiter, H., see Munshi, P. 95 (1995) 402
Remillieux, A., see Vireton, E. 95 (1995) 34
Renaud, G., B. Villette and P. Guénard, Apparatus for 3D surface X-ray scattering during in situ molecular beam deposition 95 (1995) 422

Ribeiro Guevara, S., see Collico Savio, D.L. 95 (1995) 379
Ricci, R.A., see Yuminov, O.A. 95 (1995) 543
Riviere, J.P., see Chartier, P. 95 (1995) 327
Rogalev, B. and V. Chernov, Dose dependences of creation of magnesium centres in LiF:Mg crystals under thermal neutrons 95 (1995) 505
Rosier, L., see Ouichaoui, S. 95 (1995) 463
Ross, G.G., see Leblanc, L. 95 (1995) 457
Ruiz, J.A., see Porras, E. 95 (1995) 344
Rybka, V., see Jankovskij, O. 95 (1995) 192

Sabin, J.R., see Trickey, S.B. 95 (1995) 480
Salo, J., An opto-electronic method for measurement of plasma beams generated by the pulsed arc-discharge method . 95 (1995) 119
Sánchez, F., see Porras, E. 95 (1995) 344
Santiago, F., see Stumborg, M.F. 95 (1995) 319
Sazonova, E.V., see Gulamova, R.R. 95 (1995) 70
Schutz, Y., see Porras, E. 95 (1995) 344
Seidman, A., see Bosetti, M. 95 (1995) 219
Semenov, V.G., S.M. Irkaev and Y.N. Maltsev, Highly sensitive Mössbauer spectrometer for SEDM and RSMR investigations 95 (1995) 253
Shamanov, V.V., Estimation of measurement accuracy of track point coordinates in nuclear photoemulsion 95 (1995) 444
Sharov, V.A., see Chen, H. 95 (1995) 107
Shibata, N., see Ishikawa, Y. 95 (1995) 491
Shimomura, K., see Miyake, Y. 95 (1995) 265
Shinoda, K., see Tabata, T. 95 (1995) 289
Shirkov, G. and G. Zschornack, Simulation of ion confinement in an ECR ion source under electron injection 95 (1995) 527
Sigmund, P., Note on stopping power and statistics of particle penetration 95 (1995) 477
Simoen, E. and C. Claeys, Low-frequency noise characterisation of γ-irradiated silicon-on-insulator MOSFETs 95 (1995) 75
Sitko, D., see Soszka, W. 95 (1995) 166
Smirnov, A.I., see Baranov, V.I. 95 (1995) 449
Solarz, M., see He, Y.D. 95 (1995) 225
Soszka, W. and D. Sitko, Multiple nondissociative scattering of molecules and multiple scattering of ions from a cold metal surface covered with krypton film 95 (1995) 166
Stepanova, M.G., Relaxation-induced segregation in the theory of collisional mixing 95 (1995) 481
Stieler, W., M. Hillberg, F.J. Litterst, Ch. Böttger and J. Hesse, Numerical evaluation of Mössbauer spectra from thick absorbers 95 (1995) 235
Stumborg, M.F., T.K. Chu, N.A. Guardala, J.L. Price and F. Santiago, Determination of growth mechanisms of MBE grown BaF_2 on Si(100) by target angle dependence of RBS yields 95 (1995) 319
Švorčík, V., see Jankovskij, O. 95 (1995) 192

Tabata, T., P. Andreo, K. Shinoda and R. Ito, Depth profiles of charge deposition by electrons in elemental absorbers: Monte Carlo results, experimental benchmarks and derived parameters 95 (1995) 289
Taccone, A., see Yuminov, O.A. 95 (1995) 543
Tanemura, M., see Chini, T.K. 95 (1995) 313
Tarakanov, M.V., see Baranov, V.I. 95 (1995) 449
Taratin, A.M., Computer simulation of accelerator beam extraction with a bent crystal 95 (1995) 243
Teesdale, W.J., see Maxwell, J.A. 95 (1995) 407
Terekhov, V.I., see Baranov, V.I. 95 (1995) 449
The ISOLDE collaboration, see Poulsen, J.R. 95 (1995) 260
Tombrello, T.A., Columnar track damage in YBCO 95 (1995) 232
Tombrello, T.A., Damage in metals from MeV heavy ions 95 (1995) 501
Torrisi, L., see Benyaich, F. 95 (1995) 102
Trickey, S.B. and J.R. Sabin, Reply to: Note on stopping power and statistics of particle penetration 95 (1995) 480
Tsarik, S.V., see Baranov, V.I. 95 (1995) 449
Tuccillo, A.A., see Bartiromo, R. 95 (1995) 537

Umesh, T.K., see Gowda, C. 95 (1995) 127
Uzunov, N.M., I.P. Penev and A.M. Artinian, A method for quantitative analysis of potassium and calcium using PIGE (*Letter to the Editor*) 95 (1995) 276

Vâlcov, N., see Purghel, L. 95 (1995) 7
Vannini, G., see Yuminov, O.A. 95 (1995) 543
Vannucci, L., see Yuminov, O.A. 95 (1995) 543
Vasil'chenko, V.G., see Protopopov, Yu.M. 95 (1995) 496
Vernois, J., see Barbot, J.F. 95 (1995) 213
Villette, B., see Renaud, G. 95 (1995) 422
Vireton, E., P. Ganau, J.M. Mackowski, C. Michel, L. Pinard, A. Remillieux and P. Laprat, SiO_2–Ta_2O_5 sputtering yields: simulated and experimental results 95 (1995) 34
Von der Linden, W., see Eckstein, W. 95 (1995) 14

Wallace, W.E., see Leblanc, L. 95 (1995) 457
Wang, T.M., see Wang, W.J. 95 (1995) 339
Wang, W.J., C. Jing and T.M. Wang, The property and structural changes of diamond-like carbon films after irradiation with 110 keV Fe^+ ions 95 (1995) 339
Wang Da-Chun, Luo Ping-An and Yang Hua, Measurement of the mass attenuation coefficients for SiH_4 and Si . . . 95 (1995) 161
Wang Yongqiang, see Liao Changgeng 95 (1995) 97
Wei Zengquan, Xie Hongmei, Han Guangwu and Li Wenjian, Physical mechanisms of mutation induced by low energy ion implantation 95 (1995) 371
Whipple, E.R., Quadrupole doublet inequality in granular Mössbauer absorbers, produced by elongated or flat crystals 95 (1995) 515
Wick, K., see Wulkop, B. 95 (1995) 141
Wulkop, B., K. Wick, W. Busjan, A. Dannemann and U. Holm, Evidence for the creation of short-lived absorption centers in irradiated scintillators (*Letter to the Editor*) 95 (1995) 141

Xiao, Q.F., see Chen, H. 95 (1995) 107
Xie Hongmei, see Wei Zengquan 95 (1995) 371

Yan, P., S.-z. Yang, B. Li and X. Chen, A new technique for deposition of titanium carbonitride films at room temperature by high energy density pulse plasma 95 (1995) 55
Yang, S.-z., see Yan, P. 95 (1995) 55
Yang, J., see Zhou, R. 95 (1995) 249
Yang Hua, see Wang Da-Chun 95 (1995) 161
Yuminov, O.A., S.Yu. Platonov, D.O. Eremenko, N.V. Eremin, I.M. Egorova, V.O. Kordyukevich, O.V. Fotina, F. Malaguti, A. D'Arrigo, G. Giardina, A. Taccone, G. Vannini, A. Moroni, R.A. Ricci and L. Vannucci, A novel experimental technique of nuclear lifetime measurements 95 (1995) 543

Zagarella, R., see Bartiromo, R. 95 (1995) 537
Zak, D., see Evdokimov, V.A. 95 (1995) 278
Zararsiz, A., see Arikan, P. 95 (1995) 82
Zeissler, C.J., see Chen, H. 95 (1995) 107
Zhang, F.W., see Feng, J.Y. 95 (1995) 50
Zheng Zhihao, see Liao Changgeng 95 (1995) 97
Zheng, Y., see Feng, J.Y. 95 (1995) 50
Zhou, R., J. Yang and F. Li, A convenient microcomputer data acquisition system for Mössbauer spectroscopy 95 (1995) 249
Zhu, H. and N.Q. Lam, Displacement cascades in the ordered compound CuTi studied by molecular-dynamics simulations 95 (1995) 25
Zschornack, G., see Shirkov, G. 95 (1995) 527

Nuclear Instruments and Methods in Physics Research B 95 (1995) 559–562

ELSEVIER

NIM B
Beam Interactions with Materials & Atoms

Subject index

Basic Data for Materials Modification and Analysis

Can the light ion transport in heavy targets be characterized by a single parameter?, Luo Zhengming and Hou Qing . . 95 (1995) 1
Particle and energy dependence of the statistical fluctuations of an ionization chamber current, L. Purghel and N. Vâlcov 95 (1995) 7
Erratum to: "The non-linear wake in a hydrodynamical model" [Nucl. Instr. and Meth. B 93 (1994) 175], J.J. Dorado, O.H. Crawford and F. Flores 95 (1995) 144
Measurement of absolute stopping cross sections by backscattering in thin dielectric films, E.E. Khawaja, S.M.A. Durrani, A.B. Hallak and M.A. Daous. 95 (1995) 153
Angular distributions for H^- formation from interaction of H_2^+ with Kr, B.E. Fuentes, H. Martínez, C. Cisneros, I. Alvarez and J. de Urquijo 95 (1995) 158
Measurement of the mass attenuation coefficients for SiH_4 and Si, Wang Da-Chun, Luo Ping-An and Yang Hua 95 (1995) 161
Mean excitation energies of Al_2O_3 and SiO_2 extracted from alpha particle stopping power measurements, L.E. Porter. 95 (1995) 285
Depth profiles of charge deposition by electrons in elemental absorbers: Monte Carlo results, experimental benchmarks and derived parameters, T. Tabata, P. Andreo, K. Shinoda and R. Ito 95 (1995) 289
Measured stopping powers of hydrogen and helium in polystyrene near their maximum values, L. Leblanc, G.G. Ross and W.E. Wallace 95 (1995) 457
Stopping powers of Al, Cu, Ag and Au media for 1.47 MeV/u ^{127}I, 2 MeV/u ^{32}S and ^{79}Br ions, S. Ouichaoui, L. Rosier, E. Hourany, R. Bimbot, N. Redjdal and H. Beaumevieille 95 (1995) 463
Elastic scattering of electrons and positrons by atoms: differential and transport cross section calculations, M. Dapor . 95 (1995) 470
Note on stopping power and statistics of particle penetration, P. Sigmund 95 (1995) 477
Reply to: Note on stopping power and statistics of particle penetration, S.B. Trickey and J.R. Sabin. 95 (1995) 480

Atomic Collisions in Solids

Efficient tabulation of plasma surface interaction data, W. Eckstein, W. von der Linden and V. Dose 95 (1995) 14
High-energy ion implantation simulation based on numerical solution of the Boltzmann transport equation, I.E. Mozolevsky and V.I. Belko 95 (1995) 17
Displacement cascades in the ordered compound CuTi studied by molecular-dynamics simulations, H. Zhu and N.Q. Lam 95 (1995) 25
SiO_2–Ta_2O_5 sputtering yields: simulated and experimental results, E. Vireton, P. Ganau, J.M. Mackowski, C. Michel, L. Pinard, A. Remillieux and P. Laprat 95 (1995) 34
Erratum to: "Calculation of energetic H_2^+-transmission yield using an efficient Monte Carlo algorithm" [Nucl. Instr. and Meth. B 93 (1994) 14] and "Wake effects on the transmission of fast H_2^+-ions through thin carbon foils" [Nucl. Instr. and Meth. B 93 (1994) 11], M.M. Jakas and N.E. Capuj 95 (1995) 146
Multiple nondissociative scattering of molecules and multiple scattering of ions from a cold metal surface covered with krypton film, W. Soszka and D. Sitko 95 (1995) 166
Hyperthermal (10–500 eV) collisions of noble gases with Ni(100) surface. Comparison between light and heavy atom collisions, C. Kim, H. Kang and S.C. Park 95 (1995) 171
Some comments on pressure-pulse/shock-wave desorption in a real material, C.T. Reimann 95 (1995) 181
Ion-photon emission from metals implanted with ions of reactive elements, S.F. Belykh, R.N. Evtukhov, I.V. Redina and V.Kh. Ferleger 95 (1995) 300
Emission of excited neutral atoms and ions from a Mg surface incorporated with oxygen under Ar ion sputtering, S. Nishigaki, S. Onda, S. Kunitomo, M. Inoue and T. Noda. 95 (1995) 307
Monocrystalline InP surfaces normally sputtered with Ar^+: SEM and TEM observations, T.K. Chini, J. Kato, M. Tanemura and F. Okuyama 95 (1995) 313

0168-583X/95/$09.50 © 1995 Elsevier Science B.V. All rights reserved

Relaxation-induced segregation in the theory of collisional mixing, M.G. Stepanova 95 (1995) 481

Ion Beam Modification of Materials

A simplistic model for reverse annealing in irradiated silicon, G. Lutz 95 (1995) 41
Formation of Te clusters in ionized cluster beam deposition technique, J.Y. Feng, F.W. Zhang, Y. Zheng and Y.D. Fan 95 (1995) 50
A new technique for deposition of titanium carbonitride films at room temperature by high energy density pulse plasma, P. Yan, S.-z. Yang, B. Li and X. Chen 95 (1995) 55
Diffusion of iodine into polyethylene implanted with 150 keV As^+ ions, O. Jankovskij, V. Švorčík, V. Rybka, V. Hnatowicz and V. Popok 95 (1995) 192
The effect of Zr-implantation on the thermal oxidation and aqueous corrosion of AISI 321 stainless steel, F. Noli, P. Misaelides, G. Giorginis, H. Baumann and A. Hatzidimitriou 95 (1995) 197
The $\epsilon \rightarrow \gamma'$ transformation in N-implanted α-Fe, M. Kopcewicz, J. Jagielski and G. Gawlik 95 (1995) 208
Using electrical resistivity to analyze the kinetics of irradiation induced amorphization of metals, N. Karpe 95 (1995) 485
Oxygen redistribution during low-energy oxygen implantation, Y. Ishikawa and N. Shibata 95 (1995) 491

Effects of Radiation

Ion track effects on gel formation of polystyrene, L. Calcagno, R. Percolla and G. Foti 95 (1995) 59
Positron annihilation investigation of defects in hydrogen containing FZ Si irradiated with high-dose reactor neutrons, X.-T. Meng 95 (1995) 65
The employment of quartz glasses for dosimetry of ionizing radiation, R.R. Gulamova, E.M. Gasanov, E.V. Sazonova and R. Alimov 95 (1995) 70
Low-frequency noise characterisation of γ-irradiated silicon-on-insulator MOSFETs, E. Simoen and C. Claeys 95 (1995) 75
Defect levels of proton-irradiated silicon with doses ranging from 1×10^{12} cm^{-2} to 1×10^{13} cm^{-2}, J.F. Barbot, E. Ntsoenzok, C. Blanchard, J. Vernois and D.B. Isabelle 95 (1995) 213
Evidence for the creation of short-lived absorption centers in irradiated scintillators (*Letter to the Editor*), B. Wulkop, K. Wick, W. Busjan, A. Dannemann and U. Holm 95 (1995) 141
Study of current–voltage characteristics of irradiated silicon detectors, M. Bosetti, N. Croitoru, C. Furetta, C. Leroy, S. Pensotti, P. Rancoita, M. Rattaggi, M. Redaelli and A. Seidman 95 (1995) 219
Enhancing the sensitivity of CR-39 detectors to relativistic ions by etching in potassium and sodium hydroxides, Y.D. He and M. Solarz 95 (1995) 225
Columnar track damage in YBCO, T.A. Tombrello 95 (1995) 232
High energy proton-induced radioactivity in HgI_2 crystals, E. Porras, T. Carter, J.M. Pérez, J.L. Ferrero, F. Sánchez, J.A. Ruiz, Y. Schutz, F. Lei, A.J. Dean, V. Reglero and P. Olmos 95 (1995) 344
Nuclear tracks from Cold Dark Matter interactions in mineral crystals: a computational study, J.I. Collar and F.T. Avignone III 95 (1995) 349
A neutron damage study of liquid phase epitaxial GaAs and high purity silicon, K.S.A. Butcher, D. Alexiev and J.W. Boldeman 95 (1995) 355
Physical mechanisms of mutation induced by low energy ion implantation, Wei Zengquan, Xie Hongmei, Han Guangwu and Li Wenjian 95 (1995) 371
Radiation damage in plastic scintillators and optical fibers, Yu.M. Protopopov and V.G. Vasil'chenko 95 (1995) 496
Damage in metals from MeV heavy ions, T.A. Tombrello 95 (1995) 501
Dose dependences of creation of magnesium centres in LiF : Mg crystals under thermal neutrons, B. Rogalev and V. Chernov 95 (1995) 505

Analysis of Materials

Determination of high-*Z* materials in low-*Z* medium by X-ray scattering techniques, P. Arikan, A. Zararsiz, R. Kirmaz and N. Efe 95 (1995) 82
Calculation on X-ray scattering of 17.4 keV radiation and image degradation in mammography, S.D. Magalhães, J. Eichler and O. Gonçalves 95 (1995) 87
Depth resolution in depth profiling of marker layers by energetic ion bombardment, M.J. Caturla, I. Abril and J.J. Jiménez-Rodríguez 95 (1995) 91
Boron depth profiles in silicon and simulation of α-spectra, Liao Changgeng, Jian Hui, Wang Yongqiang and Zheng Zhihao 95 (1995) 97
PIXE and RBS analysis of sediments from El-Kansera barrage on Oued Beht river in Morocco, F. Benyaich, L. Torrisi, M.Z. Benabdellah and M. Derraz 95 (1995) 102

Prompt gamma activation analysis enhanced by a neutron focusing capillary lens, H. Chen, V.A. Sharov, D.F.R. Mildner, R.G. Downing, R.L. Paul, R.M. Lindstrom, C.J. Zeissler and Q.F. Xiao 95 (1995) 107
Numerical evaluation of Mössbauer spectra from thick absorbers, W. Stieler, M. Hillberg, F.J. Litterst, Ch. Böttger and J. Hesse 95 (1995) 235
A method for quantitative analysis of potassium and calcium using PIGE (*Letter to the Editor*), N.M. Uzunov, I.P. Penev and A.M. Artinian 95 (1995) 276
Elemental analysis of a concrete sample by capture gamma rays with a radioisotope neutron source, D.L. Collico Savio, M.A.J. Mariscotti and S. Ribeiro Guevara 95 (1995) 379
Galileo's writings: chronology by PIXE, L. Giuntini, F. Lucarelli, P.A. Mandò, W. Hooper and P.H. Barker 95 (1995) 389
Multiple scattering in synchrotron studies of disordered materials, H.F. Poulsen and J. Neuefeind 95 (1995) 509
Quadrupole doublet inequality in granular Mössbauer absorbers, produced by elongated or flat crystals, E.R. Whipple . 95 (1995) 515
PIXE-method determination of the elemental composition of the European oyster Ostrea edulis, P. Kuisma-Kursula, J. Räisänen and J. Donner 95 (1995) 523

Ion Sources and Beam Optics

The effects of source temperature and emission current on the mass spectrum and the angular distribution of the ions emitted by an AuSi field ion source, S. Georgieva, N. Drandarov and B. Nikolov 95 (1995) 115
An opto-electronic method for measurement of plasma beams generated by the pulsed arc-discharge method, J. Salo. . 95 (1995) 119
Computer simulation of accelerator beam extraction with a bent crystal, A.M. Taratin 95 (1995) 243
Highly efficient deflection of a divergent beam by a bent single crystal (*Letter to the Editor*), V.I. Baranov, V.M. Biryukov, A.P. Bugorsky, Yu.A. Chesnokov, V.I. Kotov, M.V. Tarakanov, V.I. Terekhov, S.V. Tsarik, O.L. Fedin, M.A. Gordeeva, M.P. Gur'yev, Yu.P. Platonov and A.I. Smirnov 95 (1995) 449
Simulation of ion confinement in an ECR ion source under electron injection, G. Shirkov and G. Zschornack 95 (1995) 527

Experimental Methods and Equipment

Development of an anti-Compton shield for a Si(Li) detector employed in PIXE analysis, M. Elfman, N.P.-O. Homman and P. Kristiansson 95 (1995) 122
A simple method to measure the total coherent scattering cross sections of elements, C. Gowda, T.K. Umesh and R. Gowda 95 (1995) 127
Harmonic analysis of Mössbauer spectra, J. Cieślak and S.M. Dubiel 95 (1995) 131
A convenient microcomputer data acquisition system for Mössbauer spectroscopy, R. Zhou, J. Yang and F. Li 95 (1995) 249
Highly sensitive Mössbauer spectrometer for SEDM and RSMR investigations, V.G. Semenov, S.M. Irkaev and Y.N. Maltsev 95 (1995) 253
Sources for positron lifetime spectroscopy produced by ion implantation of ^{22}Na, J.R. Poulsen, M. Eldrup, J. Lettry and the ISOLDE collaboration 95 (1995) 260
Laser system for the resonant ionization of hydrogen-like atoms produced by nuclear reactions, Y. Miyake, J.P. Marangos, K. Shimomura, P. Birrer, T. Kuga and K. Nagamine 95 (1995) 265
Mini and micro transducers for Mössbauer spectroscopy (*Letter to the Editor*), V.A. Evdokimov, M. Mashlan, D. Zak, A.A. Novodorov, A.L. Kholmetskii and O.V. Misevich 95 (1995) 278
A long-lived tritiated titanium target for fast neutron production, B.J. Hughey 95 (1995) 393
An experimental study of tomographic contrast resolution, P. Munshi, M. Maisl and H. Reiter. 95 (1995) 402
The Guelph PIXE software package II, J.A. Maxwell, W.J. Teesdale and J.L. Campbell 95 (1995) 407
Apparatus for 3D surface X-ray scattering during in situ molecular beam deposition, G. Renaud, B. Villette and P. Guénard. 95 (1995) 422
A tunable monochromatic gamma-ray source. Part 1. Concept of the source, J. Jolie and M. Bertschy 95 (1995) 431
A tunable monochromatic gamma-ray source. Part 2. Realisation of the RCFT geometry at the Ghent 15 MeV linac, M. Bertschy, J. Jolie and W. Mondelaers 95 (1995) 437
Estimation of measurement accuracy of track point coordinates in nuclear photoemulsion, V.V. Shamanov 95 (1995) 444
Radiation dosimetry using thermoluminescence of semiconductor-doped Vycor glass, B.L. Justus, T.L. Johnson and A.L. Huston 95 (1995) 533
High counting rate soft X-ray spectrometer for tokamak plasma diagnostics, R. Bartiromo, F. Bombarda, L. Gabellieri, G. Pizzicaroli, A.A. Tuccillo and R. Zagarella 95 (1995) 537
A novel experimental technique of nuclear lifetime measurements, O.A. Yuminov, S.Yu. Platonov, D.O. Eremenko, N.V. Eremin, I.M. Egorova, V.O. Kordyukevich, O.V. Fotina, F. Malaguti, A. D'Arrigo, G. Giardina, A. Taccone, G. Vannini, A. Moroni, R.A. Ricci and L. Vannucci 95 (1995) 543

Letters to the Editor

Evidence for the creation of short-lived absorption centers in irradiated scintillators, B. Wulkop, K. Wick, W. Busjan, A. Dannemann and U. Holm 95 (1995) 141
A method for quantitative analysis of potassium and calcium using PIGE, N.M. Uzunov, I.P. Penev and A.M. Artinian 95 (1995) 276
Mini and micro transducers for Mössbauer spectroscopy, V.A. Evdokimov, M. Mashlan, D. Zak, A.A. Fyodorov, A.L. Kholmetskii and O.V. Misevich 95 (1995) 278
Highly efficient deflection of a divergent beam by a bent single crystal, V.I. Baranov, V.M. Biryukov, A.P. Bugorsky, Yu.A. Chesnokov, V.I. Kotov, M.V. Tarakanov, V.I. Terekhov, S.V. Tsarik, O.L. Fedin, M.A. Gordeeva, M.P. Gur'yev, Yu.P. Platonov and A.I. Smirnov 95 (1995) 449

Errata

Erratum to: "The non-linear wake in a hydrodynamical model" [Nucl. Instr. and Meth. B 93 (1994) 175], J.J. Dorado, O.H. Crawford and F. Flores 95 (1995) 144
Erratum to: "Calculation of energetic H_2^+-transmission yield using an efficient Monte Carlo algorithm" [Nucl. Instr. and Meth. B 93 (1994) 14] and "Wake effects on the transmission of fast H_2^+-ions through thin carbon foils" [Nucl. Instr. and Meth. B 93 (1994) 11], M.M. Jakas and N.E. Capuj 95 (1995) 146